

THE UNITED STRATES OF A MIERICA

TO ALL TO WHOM THESE PRESENTS SHALL COME:

Plant Research (NZ) Ctd.

MOTENS, THERE HAS BEEN PRESENTED TO THE

Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED DISTINCT VARIETY OF SEXUALLY REPRODUCED, OR TUBER PROPAGATED PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THERETO IS, FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

NOW, THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HEIRS OR ASSIGNS OF THE SAID APPLICANT(S) FOR THE TERM OF TWENTY YEARS FROM THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THE REQUIRED FEES AND PERIODIC REPLENISHMENT OF VIABLE BASIC SEED OF THE VARIETY IN A PUBLIC REPOSITORY AS PROVIDED BY LAW, THE SIGHT TO EXCLUDE OTHERS FROM SELLING THE VARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, OR RTING IT, OR EXPORTING IT, OR CONDITIONING IT FOR PROPAGATION, OR STOCKING IT FOR ANY OF THE RURPOSES, OR USING IT IN PRODUCING A HYBRID OR DIFFERENT VARIETY THEREFROM, TO THE EXTENT BY THE PLANT VARIETY PROTECTION ACT. (84 STAT. 1542, AS AMENDED, 7 U.S.C. 2321 ET SEQ.)

PEA, FIELD

'Aragorn'

In Vestimonn Macrest, I have hereunto set my hand and caused the seal of the Plant Bariety Protection Office to be affixed at the City of Washington, D.C. this sixteenth day of May, in the year two thousand and eight.

Attest:

Der3

Commissioner
Plant Variety Protection Office
Agricultural Marketing Service

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Secretary of Agra Sture

2-25-

AGRICULTURAL I	NT OF AGRICULTURE MARKETING SERVICE LANT VARIETY PROTECTION OFFICE	The following statements are made in accordance with the Privacy Act of 1974 (5 U.S.C. 552a) and the Paperwork Reduction Act (PRA) of 1995.		
APPLICATION FOR PLANT VA	RIETY PROTECTION CERTIFICATE lection burden statement on reverse)			lant variety protection certificate is to be issued until certificate is issued (7 U.S.C. 2426).
1. NAME OF OWNER Plant Research (NZ) Ltd		2. TEMPORARY DESIGNATION OR EXPERIMENTAL NAME PRL 4012		RIETY NAME AGORN
4. ADDRESS (Street and No., or R.F.D. No., City,	State, and ZIP Code, and Country)	5. TELEPHONE (include area code)		FOR OFFICIAL USE ONLY
Lincoln Green Farm Road	Lincoln University	+64-3-325-7031	PVPO	NUMBER
	, Ellicoli oniversity	6. FAX (include area code)	#2	00700171
Caterburg, New Zealand		+64-3-325-7131	FILING	DATE
7. IF THE OWNER NAMED IS NOT A "PERSON", ORGANIZATION (corporation, partnership, asso Ltd. (Limited)		9. DATE OF INCORPORATION	MA	ARCH 5, 2007
10 NAME AND ADDRESS OF OWNER REPRESS	ENTATIVE(S) TO SERVE IN THIS APPLICATION. (First p	nerson listed will receive all naners)	FE	FILING AND EXAMINATION FEES:
	Braunwart	orison instea will receive all papers)	E S R E	\$4,382.00 DATE 3/5/07
860 S Crestline Road			C	CERTIFICATION FEE:
Othello, WA 99344			V E	\$ 768,00
			D	3/11/08
11. TELEPHONE (Include area code) 509 - 488 - 39 7 7	12. FAX (Include area code) 509 - 488 - 5289	progene@cbnn.ne	et	
14. CROP KIND (Common Name)	16. FAMILY NAME (Botanical)	18. DOES THE VARIETY CONTA	AIN ANY T	RANSGENES? (OPTIONAL)
Field Pea	Lecominosae	☐ YES 🗷 NO		
15. GENUS AND SPECIES NAME OF CROP	17. IS THE VARIETY A FIRST GENERATION HYBRI			USDA-APHIS REFERENCE NUMBER FOR THE ATE THE GENETICALLY MODIFIED PLANT FOR
FISUM Sactivum	YES S NO	COMMERICALIZATION.		
 CHECK APPROPRIATE BOX FOR EACH ATT (Follow instructions on reverse) 	ACHMENT SUBMITTED	20. DOES THE OWNER SPECIF OF CERTIFIED SEED? (See	Y THAT S e Section 8	EED OF THIS VARIETY BE SOLD AS A CLASS 33(a) of the Plant Variety Protection Act)
a. X Exhibit A. Origin and Breeding History	of the Variety			and 22 below) 🙀 NO (If "no", go to item 23)
b. X Exhibit B. Statement of Distinctness		21. DOES THE OWNER SPECIF NUMBER OF CLASSES?	Y THAT S	EED OF THIS VARIETY BE LIMITED AS TO
c. 💢 Exhibit C. Objective Description of Va	riety	☐ YES 🕱 NO		
d.				NDATION REGISTERED CERTIFIED
e. X Exhibit E. Statement of the Basis of the		NUMBER OF GENERATION		EED OF THIS VARIETY BE LIMITED AS TO
f. X Exhibit F. Declaration Regarding Depo		☐ YES 💆 NO		
	ted seeds or, for tuber propagated varieties, verification d maintained in an approved public repository)	IF YES, SPECIFY THE NUME	BER 1,2,3,	etc. FOR EACH CLASS.
g. X Filing and Examination Fee (\$4,382), r		☐ FOUNDATION ☐ RE		
States" (Mail to the Plant Variety Prote 23. HAS THE VARIETY (INCLUDING ANY HARVE		24. IS THE VARIETY OR ANY CO	OMPONEN	lease use the space indicated on the reverse.) IT OF THE VARIETY PROTECTED BY PLANT BREEDER'S RIGHT OR PATENT)?
OTHER COUNTRIES?	DOF, MANOFERRED, OR ODED IN THE O. S. OR		KIGHT (F	CANT BREEDER'S RIGHT OR PATENTY!
YES NO	FIRST SALE, DISPOSITION, TRANSFER, OR USE	☐ YES 🔼 NO	TRY DAT	E OF FILING OR ISSUANCE AND ASSIGNED
	ANCES. (Please use space indicated on reverse.)	REFERENCE NUMBER. (Plea		
for a tuber propagated variety a tissue culture	sic seed of the variety has been furnished with application will be deposited in a public repository and maintained fo	r the duration of the certificate.		
The undersigned owner(s) is(are) the owner of entitled to protection under the provisions of Sec	this sexually reproduced or tuber propagated plant variety tion 42 of the Plant Variety Protection Act.	y, and believe(s) that the variety is new, dis	stinct, unifo	orm, and stable as required in Section 42, and is
Owner(s) is (are) informed that false represent	ation herein can jeopardize protection and result in penalti	ies.		
SIGNATURE OF OWNER	8	SIGNATURE OF OWNER		7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7
	ant		*	
NAME Please print or type) Kurt Braunwart Agent fo		NAME (Please print or type)		
CAPACITY OR TITLE	DATE	CAPACITY OR TITLE	DATE	
Owner, ProGene LLC	02-23/2007			

(See reverse for instructions and information collection burden statement)

GENERAL INSTRUCTIONS: To be effectively filed with the Plant Variety Protection Office (PVPO), ALL of the following items must be received in the PVPO: (1) Completed application form signed by the owner; (2) completed exhibits A, B, C, E, F; (3) for a tuber reproduced variety, verification that a viable (in the sense that it will reproduce an entire plant) tissue culture will be deposited and maintained in an approved public repository; and (4) payment by credit card or check drawn on a U.S. bank for \$4,382 (\$518 filling fee and \$3,864 examination fee), payable to "Treasurer of the United States" (See Section 97.6 of the Regulations and Rules of Practice). NEW: With the application for a seed reproduced variety or by direct deposit soon after filling, the applicant must provide at least 3,000 viable untreated seeds of the variety per se, and for a hybrid variety at least 3,000 untreated seeds of each line necessary to reproduce the variety. Partial applications will be held in the PVPO for not more than 90 days; then returned to the applicant as un-filed. Mail application and other requirements to Plant Variety Protection Office, AMS, USDA, Room 401, NAL Building, 10301 Baltimore Avenue, Beltsville, MD 20705-2351. Retain one copy for your files. All items on the face of the application are self explanatory unless noted below. Corrections on the application form and exhibits must be initialed and dated. DO NOT use masking materials to make corrections. If a certificate is allowed, you will be requested to send a payment by credit card or check payable to "Treasurer of the United States" in the amount of \$768 for issuance of the certificate. Certificates will be issued to owner, not licensee or agent.

NOTES: It is the responsibility of the applicant/owner to keep the PVPO informed of any changes of address or change of ownership or assignment or owner's representative during the life of the application/certificate. The fees for filing a change of address; owner's representative; ownership or assignment; or any modification of owner's name is specified in Section 97.175 of the regulations. (See Section 101 of the Act, and Sections 97.130, 97.131, 97.175(h) of the Regulations and Rules of Practice.)

Plant Variety Protection Office

Telephone: (301) 504-5518 FAX: (301) 504-5291

General E-mail: PVPOmail@usda.gov

Homepage: http://www.ams.usda.gov/science/pvpo/PVPindex.htm

#200700171

SPECIFIC INSTRUCTIONS:

To avoid conflict with other variety names in use, the applicant must check the appropriate recognized authority and **provide evidence** that the permanent name of the application variety (even if it is a parental, inbred line) has been cleared by the appropriate recognized authority before the Certificate of Protection is issued. For example, for agricultural and vegetable crops, contact: U.S. Department of Agriculture, Agricultural Marketing Service, Livestock and Seed Programs, **Seed Regulatory and Testing Branch**, 801 Summit Crossing Place, Suite C, Gastonia, North Carolina 28054-2193 Telephone: (704) 810-8870. http://www.ams.usda.gov/lsg/seed.htm.

ITEM

- 19a. Give: (1) the genealogy, including public and commercial varieties, lines, or clones used, and the breeding method;
 - (2) the details of subsequent stages of selection and multiplication;
 - (3) evidence of uniformity and stability; and
 - (4) the type and frequency of variants during reproduction and multiplication and state how these variants may be identified
- 19b. Give a summary of the variety's distinctness. Clearly state how this application variety may be distinguished from all other varieties in the same crop. If the new variety is most similar to one variety or a group of related varieties:
 - (1) identify these varieties and state all differences objectively;
 - (2) attach replicated statistical data for characters expressed numerically and demonstrate that these are clear differences; and
 - (3) submit, if helpful, seed and plant specimens or photographs (prints) of seed and plant comparisons which clearly indicate distinctness.
- 19c. Exhibit C forms are available from the PVPO Office for most crops; specify crop kind. Fill in Exhibit C (Objective Description of Variety) form as completely as possible to describe your variety.
- 19d. Optional additional characteristics and/or photographs. Describe any additional characteristics that cannot be a surately conveyed in Exhibit C. Use comparative varieties as is necessary to reveal more accurately the characteristics that are difficult to describe, such as plant habit, plant color, disease resistance. etc.
- 19e. Section 52(5) of the Act requires applicants to furnish a statement of the basis of the applicant's ownership. An Exhibit E form is available from the PVPO.
- 20. If "Yes" is specified (seed of this variety be sold by variety name only, as a class of certified seed), the applicant MAY NOT reverse this affirmative decision after the variety has been sold and so labeled, the decision published, or the certificate issued. However, if "No" has been specified, the applicant may change the choice. (See Regulations and Rules of Practice, Section 97.103).
- 23. See Sections 41, 42, and 43 of the Act and Section 97.5 of the regulations for eligibility requirements.
- 24. See Section 55 of the Act for instructions on claiming the benefit of an earlier filing date.
- 22. CONTINUED FROM FRONT (Please provide a statement as to the limitation and sequence of generations that may be certified.)
- 23. CONTINUED FROM FRONT (Please provide the date of first sale, disposition, transfer, or use for each country and the circumstances, if the variety (including any harvested material) or a hybrid produced from this variety has been sold, disposed of, transferred, or used in the U.S. or other countries.)
- USA -- May 2006 release date and sale of seed for first commercial evaluation.
- 24. CONTINUED FROM FRONT (Please give the country, date of filing or issuance, and assigned reference number, if the variety or any component of the variety is protected by intellectual property right (Plant Breeder's Right or Patent).)

According to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a valid OMB control number. The valid OMB control number for this information collection is 0581-0055. The time required to complete this information collection is estimated to average 1.4 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

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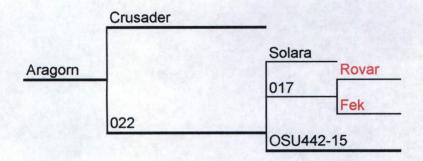
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Aragorn

Exhibit A

The cross from which Aragorn was selected was made at Lincoln, New Zealand in September 2000 by Plant Research (NZ) Ltd

Crusader X 022



Crusader is a pea variety developed in New Zealand 022 is a breeding line owned by Plant Research (NZ) Ltd 017 is a breeding line owned by Plant Research (NZ) Ltd OSU442-15 is an accession originating from Oregon State University Solara is a variety owned by Cebeco Ltd

Details of Development

	Generation	Year	Stock #	# SPS's	Amount	Selection Criteria
NZ	F1	2001	20024			No criteria used; bulked
NZ	F2	2001	20024	24		Yield, Maturity, Lodging, & Seed quality
NZ	F3	2001/02	PLR USA 4.4	14		Yield, Maturity, Lodging, & Seed quality
USA	F4	2002	02SI 4012	4		Maturity, Pod set, Lodging, & % Double pods
NZ	F6	2002/03	02SI 4012	12		Maturity, Pod set, Lodging, & % Double pods
USA	F7	2003	03SI 9303		14#	Yield, Maturity, Lodging, & Bleach tolerance
NZ	F8	2003/04	03SI 9303		120#	Yield, Maturity, Lodging, & Bleach tolerance
USA	F9	2004	P487		656#	Yield, Maturity, Lodging, & Bleach tolerance
NZ	F10	2004/05	PRL 4012		9,740#	Yield, Maturity, Lodging, & Bleach tolerance
USA	F11	2005	P551	- FILE	128,693#	Yield, Maturity, Lodging, & Bleach tolerance
USA	F11	2005	P552		86,640#	Yield, Maturity, Lodging, & Bleach tolerance

Aragorn was also tested as PRL 4012.

Lot P551 has been increased to commerical size quanties.

Aragorn has been observed for 8 generations, and has been uniform and stable with no variants seen.

Aragorn

Exhibit B

Aragorn is most similar to the variety Cruiser, however Aragorn differs in the following ways.

- Aragorn is shorter than Cruiser.
 69.18 cm for Aragorn vs. 78.80 cm for Cruiser
- Aragorn has a larger seed size than Cruiser.
 19.0 g/100 sd for Aragorn vs. 18.0 g/100 sd for Cruiser

Aragorn vs. Cruiser Plant Height

		Aragorn	Cruiser			Aragorn	Cruiser
.,		cm	cm			cm	cm
Year	Location			Year	Location		
2006	Othello, WA	87.63	95.25	2007	Moscow, ID	63.50	77.47
		74.93	96.52			63.50	74.93
		60.96	97.79			71.12	69.85
		85.09	106.68			68.58	67.31
		76.20	93.98			59.69	53.34
		74.93	97.79			74.93	71.12
		88.90	93.98			55.88	72.39
		67.31	78.74			64.77	78.74
		77.47	91.44			66.04	80.01
		68.58	68.58			58.42	77.47
		83.82	76.20			62.23	82.55
		87.63	86.36			53.34	73.66
		76.20	78.74			63.50	62.23
		63.50	81.28			67.31	73.66
		73.66	81.28			62.23	64.77
		77.47	99.06			53.34	64.77
		69.85	86.36			63.50	68.58
		69.85	95.25			68.58	66.04
		54.61	63.50			68.58	72.39
		73.66	55.88			66.04	76.20
		74.61	86.23			63.75	71.37

		Aragorn	Cruiser
		cm	cm
Year	Location		
2005	Moscow, ID	49.53	52.07
		53.34	62.23
		53.34	58.42
		50.80	43.18
		45.72	58.42
		57.15	53.34
		45.72	48.26
		58.42	53.34
		60.96	48.26
		50.80	60.96
		52.58	53.85

PLANT HEIGHT 2006

Variable: GHEIGHT: Monday, October 22, 2007, 09:11:00

200700171

Source	df	SS	MS	F-value	Pr> F	
Total BLOCK	39 19	6233.496 3355.276	176.593			
ENTRY Residual	1	1350.360 1527.860	1350.360 80.414	16.79	0.0006	
Grand mean = 80.423	R	-squared = 0.754	19 C.V	v. = 11.15	58	
LSD for ENTRY = 4.9034 t (2-sided a=0.100, ENTRY Averages Level Y Cv) = 1.7291 MSF		= 0.441		
2 86.23 15.2 1 74.61 12.3						
1 74.61 12.3 GHEIGHT Means Separa		ragorn $able - LSD = 4$	1.903			
ENTRY MEAN SIGNIF						
2 86.23 a 1 74.61 b						

ANALYSIS OF VARIANCE Aragorn PVP #5, 2006 Crites-Moscow

PLANT HEIGHT 2007

Variable: GHEIGHT: Friday, October 19, 2007, 17:05:08

200760 171

Source	df	SS	MS	F-value	Pr> F
Total	39	2110.318			
BLOCK	19	828.063	43.582	1.18	0.3608
ENTRY	1	580.644	580.644	15.72	0.0008
Residual	19	701.612	36.927		

Grand mean = 67.564 R-squared = 0.6675 C.V. = 8.99%

LSD for ENTRY = 4.0220, S.E.D. = 1.9216, r= 20.0, Herit. = 0.424 t (2-sided a=0.050, 19 df) = 2.0930 MSE = 36.92692

E.	N	T	D	V

DIVIKI	Avera	ges		
Level		Cv	R	Rank
2	71.	37 9.8	1	Cruiser
1	63.	75 8.8	2	Aragorn
GHEIGH	T Mea	ns Separ	ation	Table - LSD = 4.022
ENTRY	MEAN	SIGNIF		
2	71.4	a		
1	63.8	b		

ANALYSIS OF VARIANCE

Aragorn vs. Cruiser PVP Plant Height (cm)

Variable: Green Height: Wednesday, January 23, 2008, 15:29:18

Source	df	SS	MS	F-value	Pr> F	
Total	99	19147.279				
BLOCK	49	14665.608	299.298	5.05	0.0000	
ENTRY	1	1580.222	1580.222	26.69	0.0000	
Residual	49	2901.450	59.213			

Grand mean = 69.837

R-squared = 0.8485

C.V. = 11.02%

LSD for ENTRY = 3.0927, S.E.D. = 1.5390, r= 50.0, Herit. = 0.339 t (2-sided a=0.050, 49 df) = 2.0096 MSE = 59.21326

ENTRY

Averages

Level --- Y --- Cv Rank

2 73.81 21.0 1 Cruiser 1 65.86 16.6 2 Aragorn

GHEIGHT Means Separation Table - LSD = 3.093

ENTRY MEAN SIGNIF

2 73.81 a 1 65.86 b

Aragorn vs. Cruiser Seed size

		Aragorn	Cruiser
		g/100 sd	g/100 sd
Year	Location		
2004	ProGene - Fleener's	19.3	18.4
2005	ProGene - Fleener's	18.2	17.3
2005	ProGene - Crite's	17.6	17.4
2005	ProGene - Wilton, ND	16.9	14.5
2005	CDC Saskatoon	19.4	18.8
2005	UI Nez Perce	18.4	16.7
2005	UI Moscow	20.6	19.1
2006	UI Nez Perce	17.3	16.0
2006	UI Moscow	21.3	20.1
2006	ProGene - Advanced	18.1	16.9
2006	ProGene - Preliminary	18.6	17.6
2006	NDSU - Minot	20.1	19.4
2006	NDSU - Carrington	20.6	20.4
2006	CDC Saskatoon	20.3	18.8
2006	ProGene - Wilton, ND	17.5	17.1
2006	NDSU - Williston	18.4	18.5
2006	Wilton, ND	19.1	18.7
2006	USDA/WSU	19.4	18.1
		19.0	18.0

ANALYSIS OF VARIANCE Aragorn PVP #4, 2007 Crites-Moscow

Variable: Seed Size: Friday, February 16, 2007, 10:35:08 #200700171

	Source	df	SS	MS	F-value	Pr> F	
	Total	35	72.336				
	BLOCK	17	60.691	3.570	18.22	0.0000	
	ENTRY	1	8.314	8.314	42.42	0.0000	
	Residual	17	3.331	0.196		385-5-E	
rand mean	= 18.469	R-s	quared = 0.9539	C.V	. = 2.40	90	
SD for EN	TRY = 0.3113	B. S.E.D.	= 0.1476, r = 18	8 0 Herit	= 0 697		
			= 2.1098 MSE =		- 0.037		
0 (2 524	ou u 0.000,	I' al	2.1030 1101	0.13330			
ENTRY							
Av	erages						
	-						
evel	Y Cv	Rank					
			orn				
1 1	Y Cv 8.95 6.7 7.99 8.1	1 Arag					
1 1	8.95 6.7	1 Arag					
1 1 2 1	8.95 6.7 7.99 8.1	1 Arage 2 Crui:		0.311			
1 1 2 1 Seed Size	8.95 6.7 7.99 8.1 Means Sepa	1 Arage 2 Crui:	ser	0.311			
1 1 2 1	8.95 6.7 7.99 8.1 Means Sepa	1 Arage 2 Crui:	ser	0.311			

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b

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U.S. DEPARTMENT OF AGRICULTURE AGRICULTURAL MARKETING SERVICE SCIENCE AND TECHNOLOGY PLANT VARIETY PROTECTION OFFICE BELTSVILLE, MD 20705

Exhibit C

OBJECTIVE DESCRIPTION OF VARIETY

	rea (risuili sauvulli L.)	
PROGENELLC (NZ) (td.	TEMPORARY OR EXPERIMENTAL DESIGNATION PRL 4012	VARIETY NAME ARAGORN
ADDRESS (Street and No. or RD No., City, State, Zip Code and Country)		FOR OFFICIAL USE ONLY
860 S. Crestline Road		PVPO NUMBER
Othello, WA 99344		#200700171
zero in the first box (e.g., 0 9 9 or 0 9) wh	en the number is either 99 or less or 9 or less resports should be determined from varieties entered in the signate system used: ROYRL HORTIC	varietal character of this variety in the boxes below. Place a ectively. Data for quantitative plant characters should be ne same trial. Royal Horticultural Society or any recognized COLTURAL SOCIETY
1. TYPE: 2 = Field	3 = Edible-podded 4 = Other (Specify)	
2. MATURITY: 15 Node Number of First Bloom: Days Same As No. of Days Later Than Days Same As	No. of Days Processing 1 = Alaska 2 = Thomas Laxton Will 4 = Wando 5 = Alderman WR 7 = Other (Specify) <u>CRUISER</u>	Heat Units R 3 = Little Marvel 6 = Australian Winter
Same As S	ame of Check Cultivar <u>CRUISER</u> ame as Check Cultivar	
2 Branching: 1 = None (Alaska) 2 Internodes: 1 = Straight 2	= Indeterminate = 1-2 Branches (Little Marvel) 3 = More than = Zig Zag	

Color:	1 = Light Green (Alaska WR) 2 = Medium Green (Thomas Laxton WR) 3 = D 4 = Other (Specify) 5 = Blue Green	Oark Green (Alderman) 6 = Yellow Green 0 = Not Applicable
A Wax:	1 = None 2 = Light 3 = Medium 4 = Heavy 0 = Not Applicable	
Molding:	1 = Not Marlbed 2 = Marbled (Alaska) 0 = Not Applicable	
	Leaflet Pairs: 1 = Not Paired 2 = One 3 = Two 4 = Three or More	0 = Not Applicable
	e: 1 = Leafless 2 = Semi 3 = Normal	
1	mat 12/01/2007	
6. STIPULES:	1 + 2	
2 1 = Lacking	2 = Present 1 = Not Clasping 2 = Clasping 1 = Not Marbled	d 2 = Marbled
Size (Comp	pared with Leaflets): 1 = Smaller 2 = Same 3 = Larger 0 = Not Applicable	
Color (Com	pared with Leaflets): 1 = Lighter 2 = Same 3 = Darker 0 = Not Applicable	
2 Color: 1	= Light Green 2 = Medium Green 3 = Dark Green 4 = Blue Green 5 = Yellow	Green 0 = Not Applicable
Color Ch	art Value: 137A Select the Color Chart Used to Determine the Val	lues:
	X Royal Horticulture Society Colour Chart Munsell Color Chart	
	Other	
2 Sipule Si	ize: 1 = Small 2 = Medium 3 = Large	
Please P	Provide Comparitive Varieties (Check Varieties) and Stipule Color	
	Variety (1) Variety (2) Variety (3)	
Variety Name:	CRUISER	
Stipule Size:	MEDIUM	
Color:	MEDIUM GREEN	
Color Chart Value:	MEDIUM GREEN 137B	
Color Chart Value:	1378 I Standard I Wing 2 Keel	
7. FLOWER COLOR Venation 1 = White 2 = Gree	1378 I Standard I Wing 2 Keel	
7. FLOWER COLOR Venation 1 = White 2 = Gree 8. PODS:	t: 1 Standard 1 Wing 2 Keel Inish 3 = Lavender 4 = Purple 5 = Red 6 = Other (Specify)	
7. FLOWER COLOR Venation 1 = White 2 = Gree 8. PODS: Shape:	t: 1 Standard 1 Wing 2 Keel Inish 3 = Lavender 4 = Purple 5 = Red 6 = Other (Specify) 1 = Straight 2 = Slightly Curved 3 = Curved	
7. FLOWER COLOR Venation 1 = White 2 = Gree 8. PODS: Shape: End:	1378 I Standard I Wing 2 Keel In standard 4 = Purple 5 = Red 6 = Other (Specify) 1 = Straight 2 = Slightly Curved 3 = Curved 1 = Pointed(Alderman) 2 = Blunt (Alaska)	
7. FLOWER COLOR Venation 1 = White 2 = Gree 8. PODS: Shape:	t: 1 Standard 1 Wing 2 Keel Inish 3 = Lavender 4 = Purple 5 = Red 6 = Other (Specify) 1 = Straight 2 = Slightly Curved 3 = Curved 1 = Pointed(Alderman) 2 = Blunt (Alaska) 1 = Light Green (Alaska WR) 2 = Medium Green 3 = Dark Green (Alderman)	'ellow
7. FLOWER COLOR Venation 1 = White 2 = Gree 8. PODS: Shape: End:	t: 1 Standard 1 Wing 2 Keel Inish 3 = Lavender 4 = Purple 5 = Red 6 = Other (Specify) 1 = Straight 2 = Slightly Curved 3 = Curved 1 = Pointed(Alderman) 2 = Blunt (Alaska) 1 = Light Green (Alaska WR) 2 = Medium Green 3 = Dark Green (Alderman)	'ellow
7. FLOWER COLOR Venation 1 = White 2 = Gree 8. PODS: Shape: Color: Color:	1378 Standard Wing Keel Standard Wing Keel Standard Wing Keel Standard Standard Wing Light Standard Standard Standard Wing Standard Wing Standard Standard Wing Standard Standard Wing Standard Standard	le 5 = Double & Triple
Color Chart Value: 7. FLOWER COLOR Venation 1 = White 2 = Gree 8. PODS: I Shape: End: Color: Surface: Borne:	1 Standard 1 Wing 2 Keel 1 Standard 1 Wing 2 Keel 1 = Straight 2 = Slightly Curved 3 = Curved 1 = Pointed(Alderman) 2 = Blunt (Alaska) 1 = Light Green (Alaska WR) 4 = Other (Specify) 5 = Blue 6 = Purple 7 = Y 1 = Smooth 2 = Rough 2 Surface: 1 = Shiny 2 = Dull 1 = Single 6 = Triple 7 = Other (Specify) 8 = Quad, Single, Double, Tollier	le 5 = Double & Triple
7. FLOWER COLOR Venation 1 = White 2 = Gree 8. PODS: Shape: Color: Surface:	1378 Standard Wing Keel Standard Wing Keel Standard Wing Standard Wing Keel Standard Standard Wing Standard Wing Keel Standard Standard Wing Standard Standard Standard Wing Standard Standard Standard Wing Standard Standa	le 5 = Double & Triple , Triple 9 = Quad
Color Chart Value: 7. FLOWER COLOR 2 Venation 1 = White 2 = Gree 8. PODS: 1 Shape: 2 End: 2 Color: 1 Surface: 3 Borne: 0 6 cm Lengt 6.3	1378 It: 1	le 5 = Double & Triple , Triple 9 = Quad
7. FLOWER COLOR 2 Venation 1 = White 2 = Gree 8. PODS: 1 Shape: 2 End: 2 Color: 3 Surface: 3 Borne: 0 6 cm Lengt 6 3	In Standard I Wing 2 Keel In Standard I Wing 2 Keel In Standard I Wing 2 Keel I Standard I Wing I Standard I Wing I Standard I Wing I Standard I Wing I Standard I Standard I Wing I Standard	le 5 = Double & Triple , Triple 9 = Quad
Color Chart Value: 7. FLOWER COLOR 2 Venation 1 = White 2 = Gree 8. PODS: 1 Shape: 2 End: 2 Color: 3 Borne: 6 3 Borne: Color: 1 Color: 1 Color: 1	1378 It: 1	le 5 = Double & Triple , Triple 9 = Quad
Color Chart Value: 7. FLOWER COLOR 2 Venation 1 = White 2 = Gree 8. PODS: 1 Shape: 2 End: 2 Color: 3 Borne: 6 3 Borne: Color: 1 Color: 1 Color: 1	Is standard I wing I Standard I Standard I wing I Standard I	le 5 = Double & Triple , Triple 9 = Quad

9. SEEDS	S: (Dry-Mature)	
4	Shape: 1 = Flattened 2 = Angular 3 = Oval 4 = R	ounded
	Surface: 1 = Smooth 2 = Dimpled 3 = Wrinkled	Luster: 1 = Shiny 2 = Dull
	Color Pattern: 1 = Monocolor 2 = Mottled 3 =	Striped 4 = Dotted
<u>4</u>	Primary Color: 1 = Creamy White 2 = Cream & Gre 5 = Dark Green 6 = Blue Green 9 = Red 10 = Gray 13 = Purple 14 = Tan 17 = Yellow Green Hillum Color: 1 = White 2 = Tan 3 = Black	en 3 = Light Green
	Cotyledon Color: 1 = Green 2 = Yellow 3 = Orangi	e 4 = Cream
119	Grams per 100 Seeds 19.0 18 TRIALS	e 4 - Cream
10. DISE	ASE: (0 = Not Tested, 1 = Susceptible, 2 = Resistant, 3 = Moderately	Resistant, 4 = Moderately Susceptible, 5 = Tolerant)
2	Fusarium Wilt – Race 1	Fusarium Wilt (Near Wilt) – Race 2
0	Ascochyta Blight	Common Mosaic
0	Bacterial Blight	Pea Enation Mosaic Virus
Ī	Downy Mildew	Seadborne Mosaic Virus
1	Powdery Mildew	Yellow Bean Mosaic Virus
	Other (Specify)	Leaf Roll Virus
	Other (Specify)	Other (Specify) MYCOSPHAERELLA PINODES
11. INSE	CT: (0 = Not Tested, 1 = Susceptible, 2 = Resistant, 3 = Moderately	Resistant 4 = Moderately Suscentible 5 = Tolerant)
0	Aphids	Other (Specify)

12. Additional informtion on any item above, or general comments that may aid in identification:

REPRODUCE LOCALLY. Include form number and edi	ition date on all reproductions.	ORM APPROVED - OMB No. 0581-0055	
U.S. DEPARTMENT OF AGRICULTURE AGRICULTURAL MARKETING SERVICE EXHIBIT E STATEMENT OF THE BASIS OF OWNERSHIP	Application is required in order to determine if a plant variety protection certificate is to be issued (7 U.S.C. 2421). The information is held confidential until the certificate is issued (7 U.S.C. 2426).		
1. NAME OF APPLICANT(S)	2. TEMPORARY DESIGNATION	3. VARIETY NAME	
Plant Research (NZ) Ltd.	OR EXPERIMENTAL NUMBER PRL 4012	ARAGORN	
4. ADDRESS (Street and No., or R.F.D. No., City, State, and ZIP, and Country) P.O. Box 19	5. TELEPHONE (Include area code) 011-64-3-325-7031	6. FAX (Include area code) 011-64-3-325-7131	
Lincoln, Canterbury			
New Zealand	7. PVPO NUMBER 200700171		
9. Is the applicant (individual or company) a U.S. national or a U.S. New Zealand	based company? If no, give name of o	country. YES NO	
10. Is the applicant the original owner?	NO If no, please answer one	of the following:	
a. If the original rights to variety were owned by individual(s), is YES	(are) the original owner(s) a U.S. Nation NO If no, give name of count		
b. If the original rights to variety were owned by a company(ies	NO If no, give name of count		
	New Zealand		
11. Additional explanation on ownership (Trace ownership from original)	ginal breeder to current owner. Use the	reverse for extra space if needed):	
Plant Research (NZ) Ltd Owner			
ProGene L.L.C Licensed U.S. representative			
Letter from original breeder enclosed			
PLEASE NOTE:			
Plant variety protection can only be afforded to the owners (not lice	nsees) who meet the following criteria:		
If the rights to the variety are owned by the original breeder, that national of a country which affords similar protection to nationals			

- If the rights to the variety are owned by the company which employed the original breeder(s), the company must be U.S. based, owned by nationals of a UPOV member country, or owned by nationals of a country which affords similar protection to nationals of the U.S. for the same genus and species.
- 3. If the applicant is an owner who is not the original owner, both the original owner and the applicant must meet one of the above criteria.

The original breeder/owner may be the individual or company who directed the final breeding. See Section 41(a)(2) of the Plant Variety Protection Act for definitions.

According to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a valid OMB control number. The valid OMB control number for this information collection is 0581-0055. The time required to complete this information collection is estimated to average 0.1 hour per response, including the time for reviewing the instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

The U.S. Department of Agriculture (USDA) prohibits discrimination in all its programs and activities on the basis of race, color, national origin, age, disability, and where applicable, sex, marital status, familial status, parental status, religion, sexual orientation, genetic information, political beliefs, reprisal, or because all or part of an individual's income is derived from any public assistance program (Not all prohibited bases apply to all programs.) Persons with disabilities who require alternative means for communication of program information (Braille, large print, audiotape, etc.) should contact USDA's TARGET Center at (202) 720-2800 (voice and TDD).

To file a complaint of discrimination, write to USDA, Director, Office of Civil Rights, 1400 Independence Avenue, S.W., Washington, D.C. 20250-9410, or call (800) 795-3272 (voice) or (202) 720-6382 (TDD). USDA is an equal opportunity provider and employer.



Plant Research (NZ) Limited Advanced Plant Breeding

Wednesday, January 24, 2007

To whom it may concern

This is to certify that the field pea (*Pisum sativum*) variety named Aragorn submitted by Mr Kurt Braunwart of Progene LLC for Plant Variety Right protection in the USA was bred, and is owned by Plant Research (NZ) Ltd.

Progene LLC have been appointed Production and marketing Licencee for the USA for Aragorn and is thereby authorized by us to apply for Plant Variety Protection in the USA, and submit all necessary documentation to the PVP office.

Yours sincerely

Adrian Russell

Managing Director

Plant Research (NZ) Ltd

Mundo

plantresnz@xtra.co.nz

Form Approved OMB NO 0581-0055

According to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a valid OMB control number. The valid OMB control number for this information collection is 0581-0055. The time required to complete this information collection is estimated to average 5 minutes per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

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To file a complaint of discrimination, write to USDA, Director, Office of Civil Rights, 1400 Independence Avenue, S.W., Washington, D.C. 20250-9410, or call (800) 795-3272 (voice) or (202) 720-6382 (TDD). USDA is a equal opportunity provider and employer.

U.S. DEPARTMENT OF AGRICULTURE AGRICULTURAL MARKETING SERVICE SCIENCE AND TECHNOLOGY PLANT VARIETY PROTECTION OFFICE BELTSVILLE, MD 20705

EXHIBIT F
DECLARATION REGARDING DEPOSIT

NAME OF OWNER (S) Plant Research (NZ) Ltd.	ADDRESS (Street and No. or RD No., City, State, and Zip Code and Country) P.O. Box 19 Lincoln, Canterbury New Zealand	TEMPORARY OR EXPERIMENTAL DESIGNATION PRL 4012
		VARIETY NAME ARAGORN
NAME OF OWNER REPRESENTATIVE (S)	ADDRESS (Street and No. or RD No., City, State, and Zip Code and Country)	FOR OFFICIAL USE ONLY
ProGene L.L.C Kurt Braunwart	860 S Crestline Othello, WA 99344	PVPO NUMBER 200700171

I do hereby declare that during the life of the certificate a viable sample of propagating material of the subject variety will be deposited, and replenished as needed periodically, in a public repository in the United States in accordance with the regulations established by the Plant Variety Protection Office.

Signature Jaunwan C

February 18, 2008



Plant Research (NZ) Limited Advanced Plant Breeding

Wednesday, January 24, 2007

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